

006280-50205960

1 a second evaluation value calculating means for
2 calculating a second evaluation value representing a magnitude
3 of an entire brightness of said second evaluation window; and
4 a correcting means for correcting said gain so as to
5 reduce the difference between said first evaluation value and
6 said second evaluation value.

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8 2. The apparatus according to claim 1, wherein
9 said second evaluation window is established in a
10 horizontally offset position from said first evaluation window.

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12 3. The apparatus according to claim 1, wherein
13 said parallax is calculated based on a histogram of
14 said distance data.

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16 4. The apparatus according to claim 1, wherein
17 said parallax is calculated based on a mean value of
18 said distance data.

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20 5. The apparatus according to claim 1, wherein
21 said second evaluation window is established in a
22 horizontally offset position by an amount of said parallax from
23 said first evaluation window.

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25 6. The apparatus according to claim 1, further

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1 comprising;

2 a correlation coefficient calculating means for
3 calculating a correlation coefficient based on said first
4 evaluation value and said second evaluation value.

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6 7. The apparatus according to claim 6, wherein
7 said first evaluation value and said second evaluation
8 value are verified by said correlation coefficient.

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10 8. The apparatus according to claim 1, wherein
11 said second evaluation window is established by
12 finding a pixel block having a largest brightness correlation
13 with a pixel block of said first evaluation window in said
14 comparison image within a specified range on the basis of a
15 reference point established based on said parallax.

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17 9. The apparatus according to claim 1, wherein
18 said parallax is calculated only based on said distance
19 data of a pixel block having a larger variation of brightness
20 than a threshold value.

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22 10. The apparatus according to claim 1, wherein
23 said first evaluation value and said second evaluation
24 value are calculated from at least one pair of first and second
25 zones prepared in said reference image and said comparison image,

1 respectively and said pair of zones are established being
2 horizontally offset by an amount of pixels according to the
3 position of said zones.

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5 11. The apparatus according to claim 10, wherein
6 said amount of pixels are established in consideration
7 of a tendency of a distance to an solid object projected in said
8 first zones.

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